Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim Listing:

1. (Currently Amended) A method for transmitting a data field of symbols comprising the steps of:

generating a first data field of symbols;

encoding said first data field producing a second data field having complex conjugates of the symbols of said first data field;

spreading said first and second data fields, wherein said first data field is spread using a first channelization code that is uniquely associated with a first antenna and said second data field is spread using a second channelization code, each channelization code being that is uniquely associated with one of a first and second antennas antenna; and

transmitting an RF signal including said first and second spread data fields over [[a]] the first and second antenna antennas.

2.   (Original) The method of claim 1 further comprising the step of scrambling said first and second spread data fields by a scrambling code associated with said base station.

3.   (Original) The method of claim 2 wherein the symbols of said first data field of symbols are grouped into a first and second sub-data field.

4.   (Original) The method of claim 3, wherein the symbols of said second data field of symbols are grouped into a third and fourth sub-data field, wherein said third sub-data field is the negative complex conjugate of said second sub-data field and said fourth sub-data field is the complex conjugate of said first sub-data field.

5.   (Currently Amended) A transmitter for transmitting a data field of symbols comprising:

a first and second antenna for transmitting said data field of symbols, wherein said data field includes a first data field;

an encoder for encoding said data field producing a second data field having complex conjugates of the symbols of said data field; and

a first ~~and second spreading~~ <u>channelization</u> device for<u> receiving the data field</u>

<u>including the first data field and</u> spreading said first ~~and second~~ data ~~fields~~ <u>field</u>,

wherein said first ~~spreading~~ <u>channelization</u> device spreads said first data field

using a first channelization code<u> that is uniquely associated with the first antenna;</u>

<u>and</u> ~~and said second spreading device spreads said second data field using a second~~

~~channelization code, each channelization code being uniquely associated with one of~~

~~said first and second antennas.~~

<u>a second channelization device for receiving the second data field from the</u>

<u>encoder and spreading said second data field using a second channelization code,</u>

<u>the second channelization code being uniquely associated with the second antenna.</u>

6.   (Original) The transmitter of claim 5 wherein said transmitter further

comprising a first and second scrambling device for scrambling said first and second

spread data fields by a single scrambling code associated with said transmitter.

7.   (Original) The transmitter of claim 6 wherein the symbols of said first

data field of symbols are grouped into a first and second sub-data field.

8.   (Original) The transmitter of claim 7, wherein the symbols of said

second data field of symbols are grouped into a third and fourth sub-data field, said

third sub-data field being the negative complex conjugate of said second sub-data field and said fourth sub-data field being the complex conjugate of said first sub-data field.

9-12. (Canceled).

13.   (Currently Amended) A method for transmitting a data field of symbols comprising the steps of:

generating a data field of symbols, wherein said data field includes a first data field;

spreading said first data field using a first channelization code producing a first spread data field, wherein the first channelization code is uniquely associated with a first antenna;

spreading said first data field using a second channelization code producing a second spread data field, wherein the second channelization code is uniquely associated with a second antenna each channelization code being uniquely associated with one of a first and second antennas; and

transmitting an RF signal including said first and second spread data fields over [[a]] the first and second antenna antennas.

14.   (Original) The method of claim 13 further comprising the steps of scrambling said first and second spread data fields by a scrambling code associated with said transmitter.

15.   (Currently Amended) A transmitter for transmitting a data field of symbols comprising:

a first and second antenna for transmitting said data field of symbols; and

a first ~~and second spreading~~ channelization device for spreading said data field, wherein said first ~~spreading~~ channelization device spreads said data field using a first channelization code that is uniquely associated with the first antenna, producing a first spread data field; and~~, and said second spreading device spreads said data field using a second channelization code, producing a second spread data field, each channelization code being uniquely associated with one of said first and second antennas.~~

a second channelization device for spreading said data field using a second channelization code that is uniquely associated with the second antenna, producing a second spread data field.

16. (Original) The transmitter of claim 15 further comprising a first and second scrambling device for scrambling said first and second spread data fields by a single scrambling code associated with said transmitter.

17-18. (Canceled).